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(74) Agent: VLECK, Jan, Montagu; Reddie and Grose, 16 Theobalds Road, London WC1X 8PL (GB).

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(71) Applicant (for all designated States except US): PERSONAL BIOMETRIC ENCODERS LIMITED [GB/GB]; Flat 1, 11 North Common Road, Ealing Common, London W5 2QB (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): ROSS, William, Leslie [GB/GB]; Flat 1, 11 North Common Road, Ealing Common, London W5 2QB (GB).

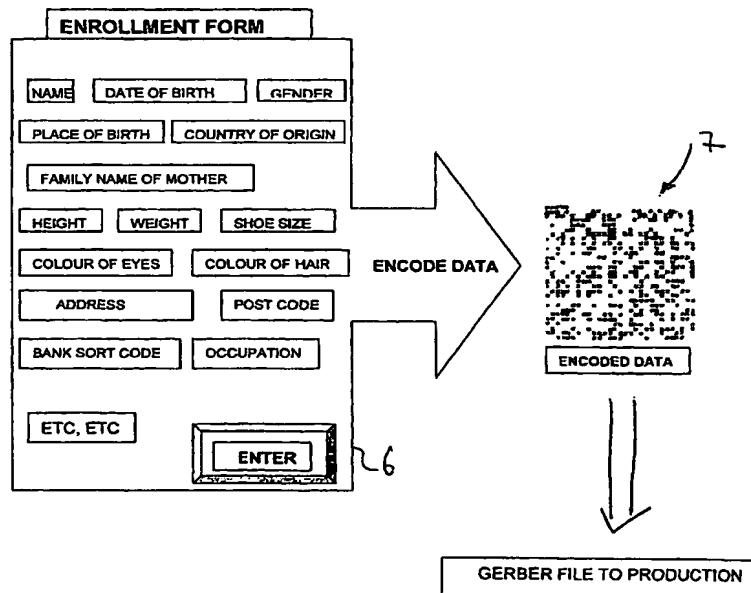
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(54) Title: SYSTEM FOR ENCODING AND/OR DECODING DATA



(57) Abstract: A memory device comprising an array of bits or binary units (2), the bits (2) being defined by a plurality of first conductors (4) and either a second conductor or a plurality of second conductors (5) overlying and separated from the first conductors, each bit (2) including a cross-over point (9) between one of the first conductors (4) and the second conductor (5), or one of the second conductors (5), and wherein a selection of the bits (2) also include a signal bridge connecting the first (4) and second (5) conductors at each of the respective selected pixels.



- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category ^a	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/88837 A (FIDELICA MICROSYSTEMS INC) 22 November 2001 (2001-11-22) page 4, line 30 - page 5, line 23; figure 4	1-8,16, 17
A	page 11, line 8 - page 14, line 5; figures 16A,B	9-15
X	US 4 582 985 A (LOEFBERG BO) 15 April 1986 (1986-04-15) column 1, lines 1-16	9-15
A	column 4, line 31 - column 7, line 7; figures 1-3,3a	1-8,16, 17
X	WO 98/52146 A (HARRIS CORP) 19 November 1998 (1998-11-19)	1-8
A	page 5, line 18 - page 7, line 10; figures 1-3	9-17
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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel: (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Lindquist, J

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 919 947 A (NIPPON ELECTRIC CO) 2 June 1999 (1999-06-02) paragraph '0060! - paragraph '0079!; figures 6,7 -----	1-8
A		9-17

INTERNATIONAL SEARCH REPORT

PCT/GB2004/001622

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 0188837	A	22-11-2001	US	6578436 B1		17-06-2003
			AU	6166101 A		26-11-2001
			TW	525097 B		21-03-2003
			WO	0188837 A1		22-11-2001
			US	2002121145 A1		05-09-2002
			US	2002166388 A1		14-11-2002
US 4582985	A	15-04-1986	SE	425704 B		25-10-1982
			AT	20556 T		15-07-1986
			AU	8273682 A		06-10-1982
			DE	3271822 D1		31-07-1986
			DK	510682 A ,B,		16-11-1982
			EP	0085680 A1		17-08-1983
			JP	5000748 B		06-01-1993
			JP	58500423 T		17-03-1983
			NO	823858 A ,B,		18-11-1982
			SE	8101707 A		19-09-1982
			WO	8203286 A1		30-09-1982
WO 9852146	A	19-11-1998	US	6067368 A		23-05-2000
			AU	7289498 A		08-12-1998
			DE	69813211 D1		15-05-2003
			DE	69813211 T2		19-02-2004
			EP	0983571 A1		08-03-2000
			JP	2002502518 T		22-01-2002
			WO	9852146 A1		19-11-1998
EP 0919947	A	02-06-1999	JP	3102395 B2		23-10-2000
			JP	11155837 A		15-06-1999
			EP	0919947 A2		02-06-1999
			US	6234031 B1		22-05-2001